

PATENT ABSTRACTS OF JAPAN

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(54) SATELLITE COMMUNICATION SYSTEM

(57)Abstract:

PURPOSE: To prevent the degradation of throughput due to repeated resending of a packet by raising the transmission power in each slave station at the time when the frequency in resending of data transmitted to a master station exceeds a prescribed threshold and preferentially receiving reception data having a higher signal intensity by the master station.

CONSTITUTION: Slave stations 1, 2, and 3 receive the occurrence of data to transmit data synchronously with each other so that a transmission packet t_s is inserted. Though packets B and C collide with each other and are resent after the lapse of an arbitrary time, the packet B is sent as a packet B' after the rise of the transmission power when the frequency in resending of the packet B exceeds a preliminarily determined threshold. This packet B' collides with a packet A' but is correctly received by the

master station since signal intensity is large. Packets A' and C are resent as packets A'' and C' after the lapse of the arbitrary waiting time and are correctly received without collision.

